Notice of Allowability	Application No.	Applicant(s)		
	09/596,141	LAWN ET AL.	LAWN ET AL.	
	Examiner	Art Unit		
	Manjunath N. Rao, Ph.D.	1652		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	s application. If not includation will be mailed in due	ded e course. THIS	
1. This communication is responsive to to the paper filed on 2.	2-21-04.			
2. X The allowed claim(s) is/are 1,8,10,12,14,16 and 18-20.				
3. \boxtimes The drawings filed on <u>30 December 2002</u> are accepted by	the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	be been received. be been received in Application N	o	ation from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the re	equirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review(P s Amendment / Comment or in t .84(c)) should be written on the di	he Office action of rawings in the front (not th	e back) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F			Note the	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0. Paper No./Mail Date	6. ☐ Interview Summ Paper No./Mail 8), 7. ⊠ Examiner's Ame	Date	owance	

Application/Control Number: 09/596,141

Art Unit: 1652

DETAILED ACTION

Claims 1, 8, 10, 12, 14, 16, 18-20 are currently pending and are present for examination.

Applicants' amendments and arguments filed on 2-21-04, have been fully considered and are deemed to be persuasive to overcome the rejections previously applied. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. Specifically, Examiner has withdrawn all previous rejections in view of cancellation of all rejected claims by the applicants.

Priority

Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged. However, the provisional application upon which priority is claimed fails to provide adequate support under 35 U.S.C. 112 for SEQ ID NO:3 of this application.

Drawings

Drawings submitted in this application are accepted by the Examiner for examination purposes only.

EXAMINER'S AMENDMENT

Please amend the specification as follows.

Please replace the paragraph on page 89, lines 1-20 with the following amended paragraph.'
--Previous genetic linkage analysis mapped the TD gene to the 7-cM region of human chromosome 9q31 (Rust et al., Nat. Genet., 20, 96-98 (1998)). In addition, *in situ* hybridization analyses revealed that the ABCI gene was localized to the broader chromosomal interval 9q22 -

Application/Control Number: 09/596,141

is associated with Tangier disease .--

Art Unit: 1652

9q31 (Luciani et al., Genomics, 21, 150-159 (1994)). Using PCR methods with the GeneBridge 4 panel of human/hampster radiation hybrids (Research Genetics, Inc., Huntsville, AL), human ABC1 was determined to be located between the markers W1-14706 and W1-4062, corresponding to the 7-cM region of human chromosome 9q31. DNA from 93 human/hampster hybrid cell lines was amplified by PCR using human ABCl-specific primers LF: CCTCTCATTACACAAAAACCAGAC (SEQ ID NO: 11) and LR: GCTTTCTTCACTTCTCATCCTG (SEQ ID NO: 12). Each line was scored as positive or negative for the human ABCI amplification product and the mapping of ABCI derived from analysis of this data was accomplished using the Whitehead Institute/MIT Center for Genome Research software, accessed via the internet (http://carbon.wi.mit.edu:8000/cgibin/contig/rhmapper.pl) (http://carbon.wi.mit.edu:8000/cgi-bin/contig/rhmapper.pl). These results were further confirmed by southern blot hybridization to human genomic/yeast artificial chromosome clones (Research Genetics, Inc.) from the equivalent interval. In addition, public database searching (GeneMap '98; National Center for Biotechnology Information) and radiation hybrid mapping eliminated the other significantly underexpressed genes in the microarray data from the location in the reported genetic interval. These complementary data demonstrate that the ABC1 gene is located on human chromosome 9q31 and further indicate that the ABC1 gene

Examiner has made the above informal examiner's amendment in order to cancel the embedded hyperlink and/or other form of browser-executable code in the specification. See MPEP § 608.01.

Application/Control Number: 09/596,141

Art Unit: 1652

Allowable Subject Matter

Claims 1, 8, 10, 12, 14, 16, 18-20 are allowed.

The following is an examiner's statement of reasons for allowance: Following a diligent search it was determined that the prior art neither teaches nor suggests an isolated polynucleotide having ABC1 promoter activity comprising SEQ ID NO:3 as claimed in claims 1, 8, 10, 12, 14, 16, 18-20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

None of the claims are allowable.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Manjunath N. Rao, Ph.D. whose telephone number is 571-272-0939. The Examiner can normally be reached on 7.00 a.m. to 3.30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Ponnathapura Achutamurthy can be reached on 571-272-0928. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306 for regular communications and for After Final communications. Any inquiry of a general nature or relating to the status of

Art Unit: 1652

this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

Manjunath N. Rao May 5, 2004